



FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. I-1-0064.5US	SERIAL NO. 10/757,222
	APPLICANT Kaewell et al.	
	FILING DATE January 14, 2004	GROUP 2618

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		3,916,110	10/1975	Lee et al.			
		3,978,292	08/1976	Hill et al.			
		4,130,731	12/1978	Bolgiano et al.			
		4,239,941	12/1980	Gauthier et al.			
		4,272,650	06/1981	Bolgiano et al.			
		4,273,964	06/1981	Szpindel			
		4,317,963	03/1982	Chea, Jr.			
		4,365,116	12/1982	Pira et al.			
		4,436,960	03/1984	Harmon, Jr.			
	*	4,465,967	08/1984	Tokunaga et al. <sup>1</sup>			
		4,477,697	10/1984	Judd et al.			
		4,509,199	04/1985	Ichihara			
		4,577,315	03/1986	Otsuka			
		4,584,576	04/1986	Forestier et al.			
		4,631,361	12/1986	Miller			
		4,675,863	06/1987	Paneth et al.			
		4,713,809	12/1987	Mizota <sup>2</sup>			
	*	4,726,051	02/1988	Schuermann			
		4,731,814	03/1988	Becker et al.			
		4,777,633	10/1988	Fletcher et al.			
		4,794,649	12/1988	Fujiwara			
		4,841,565	06/1989	Siligoni et al.			
		4,866,766	12/1989	Mitzlaff			

<sup>1</sup> Corresponds to JP 57-125421<sup>2</sup> Corresponds to EP 0210811

EXAMINER	DATE CONSIDERED
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		4,870,698	09/1989	Katsuyama et al. <sup>3</sup>			
		4,924,511	05/1990	Burns et al.			
		4,942,600	07/1990	Kaisha			
		4,962,527	10/1990	Burns et al.			
		4,964,121	10/1990	Moore			
		5,001,748	03/1991	Burns et al.			
		5,008,900	04/1991	Critchlow et al.			
		5,140,698	08/1992	Toko			
		5,150,361	09/1992	Wieczorek et al.			
		5,193,211	03/1993	Nobusawa			
		5,193,212	03/1993	Son			
		5,203,020	04/1993	Sato et al.			
		5,241,542	08/1993	Natarajan et al.			
	*	5,251,232	10/1993	Nonami <sup>4</sup>			
		5,278,831	01/1994	Mabay et al.			
		5,280,644	01/1994	Vannatta et al.			
		5,287,555	02/1994	Wilson et al.			
		5,303,420	04/1994	Jang			
		5,323,456	06/1994	Oprea			
		5,371,734	12/1994	Fischer			
		5,392,287	02/1995	Tiedemann, Jr. et al.			
	*	5,491,718	02/1996	Gould et al.			
	*	5,590,396	12/1996	Henry			
		5,594,737	01/1997	Pillekamp <sup>5</sup>			

<sup>3</sup> Corresponds to JP 63-226124<sup>4</sup> Corresponds to JP 04278740<sup>5</sup> Corresponds to DE 9214886 and JP 7508867

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	*	5,603,081	02/1997	Raith et al.			
	*	5,636,243	06/1997	Tanaka			
		5,666,355	09/1997	Huah et al.			
	*	6,104,917	08/2000	Ketonen			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	*	0 210 811	02/1987	EP			X	
		0 358 166	03/1990	EP				
		0 452 877	10/1991	EP				
		0 494 459	07/1992	EP				
	*	0 582 391	02/1994	EP <sup>6</sup>			X	
		1 079 530	02/2001	EP				
	*	55-070161	05/1980	JP			X"	
		58-087923	05/1983	JP				
		62-072238	04/1987	JP				
	*	62-203429	09/1987	JP			X"	
	*	63-136835	06/1988	JP			X"	
	*	01-245728	09/1989	JP			X"	
	*	02-060237	02/1990	JP			X"	
	*	02-257744	10/1990	JP			X"	
		02-280636	11/1990	JP				
	*	03-023725	01/1991	JP			X"	
	*	04-160908	06/1992	JP			X"	

<sup>6</sup> Corresponds to JP 6104815

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	*	04-236544	08/1992	JP			X <sup>**</sup>	
		04-278757	10/1992	JP				
		04-315320	11/1992	JP				
	*	05-297975	11/1993	JP			X <sup>**</sup>	
		05-316059	11/1993	JP				
	*	06-084391	03/1994	JP			X <sup>**</sup>	
		06-97993	04/1994	JP				
	*	06-141354	05/1994	JP				
		7202789	08/1995	JP				
		7321694	12/1995	JP				
		819041	1996	JP				
	*	90/11652	10/1990	WO <sup>7</sup>				
		93/06682	04/1993	WO				
		94/10812	05/1994	WO <sup>8</sup>				

OTHER DOCUMENTS		
EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	*	AMD SLIC Application Note Am79M53X/Am7957X, Advanced Micro Devices, (11/1991).
		Datasheet of the AMD AM79535 Subscriber Line Interface, issued by AMD July 1998 XP002200906.
		Multiple-Line-Subscriber Quad-Line-Module (QLM) Schematic, Nexus Applied Research, Inc., (11/5/93).

<sup>7</sup> Corresponds to JP 0450434

<sup>8</sup> Corresponds to JP 7508867

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		Ultraphone PROD 3 Schematic Diagram, Drawing No. BE80002, Sheet 10 of 16, InterDigital Communications Corporation, (05/20/1992).
		D.M. BEAUPRE, "Five Years of IDMA Subscriber Radio", pp. 375-379, IEE International Conference on Communications ICC '83, Boston, MA, (06/19-22/1983).
		D.M. BEAUPRE ET AL., "A New Point to Multipoint Microwave Radio System", pp. 47-51, 6th International Symposium on Subscriber Loops and Services (ISSLS 84), Nice, (10/01-05/1984).
	*	FUJITSU CORPORATION, "Speech Signal Processing for Mobile Communications," Vol. 45, No. 2, March, 1994 issue, Fujitsu Ltd., pp. 129-136, (03/10/1994). AB
	*	NATIONAL SEMICONDUCTOR CORPORATION, "CMOS Integrated Circuits," pp. 1-7, (1978).
		PAVELKA, RICHARD E., "Ringling, Tone and Cadence Requirements for Nonswitched Loads in Digital Central Offices", Intelec '88, Tenth International Telecommunications Energy, pp. 326-333, (1988-10-30).

X\*\* English language translation is not available. English language abstract provided.

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